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the Quarterdeck

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August 5, 1988

○ NPS professor develops lyrical approach to calculus instruction

by John Sanders

At a time when many university students and mathematics professors are complaining that the general approach to calculus instruction is dull and uninspiring, Dr. Hal Fredricksen, chairman of the NPS mathematics department, has created a gem that is sure to enliven calculus classrooms throughout the country.

His contribution, which appeared in the June 1988 issue of Mathematics Magazine, is a nifty little song entitled, "Hooray for Calculus." Set to the Johnny Mercer tune, "Hooray for Hollywood," this piece takes its listeners to the limit, reminding them of the importance of using calculus to find the tangent, "the straight line part of a curve."

The idea for the song began with Dr. Bruce Reznick at the University of Illinois, Fredricksen said. "I had heard vague rumors of such a song," he said. Prior to teaching calculus in 1985-86, he began to search for the lyrics.

Fredricksen found that only one line had been written by Reznick, with another crafted by Dr. Bob McEliece, an electrical engineering professor at Cal Tech and Fredricksen's long-time personal friend.

"When teaching calculus, you're limited to developing a new approach to a problem, or finding either a better theorem or better approach to teaching."

With Fredricksen taking the lead, the three completed the song in time for him to use it in his class.

Before his first presentation of the song, Fredricksen explained to his students that one of the "fun parts" of teaching math courses came in simultaneously conducting research in the subject area.

But, he said, "when teaching calculus, you can't do too much advanced research. You're limited to developing a new approach to a problem, or finding either a better theorem or better approach to teach-

ing," he said. Then he sang the song.

"I got applause and that was encouraging," Fredricksen said. Then last year, he sang the song while conducting a doctoral exam at the University of Lund in Lund, Sweden. "They decided to make singing a part of all of their Ph.D. exams," he said.

Fredricksen has written another song about the uninspiring portions of a faculty member's activities. Called "A Professor's Lot," the song will be published in Mathematics Monthly.

He notes that the songs "are not my only contribution to the field." An article, "Covering the de Bruijn Graph," will appear soon in the Discrete Mathematics Journal. Another article, "Divisors of n-Factorial and Related Properties," will be published within a few months.

(See page 3 for lyrics of "Hooray for Calculus.")

Superintendent announces faculty appointments

Dean of Science and Engineering Gordon Schacher, Dean of Academic Administration Gerald Lindsey, and the Director of the Defense Resources Management Education Center Jim Blandin were reappointed to their positions in actions taken this month by Rear Adm. Robert Austin, NPS superintendent.

Each appointment is for a three year term.



From the Executive Assistant to the Superintendent

by Cmdr. Gary K. Iversen

Frequent-flyer Programs

Nothing seems to change more often than the "do's and don'ts" of official travel and related entitlements under the Joint Travel Regulations (JFTR). I want to take this opportunity to pass on a very important rule change regarding frequent-flyer seat upgrades and the receipt of other promotional benefits.

Official travelers may still accept and retain promotional benefits such as (1) free upgrade service to first class, (2) membership in clubs, and (3) check cashing privileges. While not required to do so, an official traveler may participate in

a frequent-flyer program, however, you should be aware that you are accepting frequent-flyer points, credits, or miles for the government. Such points, etc., are not to be used for personal travel as they belong to the government. Additionally, you must make an accounting to your command for those points.

A recent comptroller general decision, reported in the *Navy Times*, would seem to allow commands to accumulate these points and then authorize upgraded government tickets as part of its travel program. That is not so! The Office of the Secretary of Defense has announced that frequent-flyer points, credits, or miles accumulated pursu-

ant to official travel may not be exchanged for accommodation upgrades for a personal trip, nor to business or first class on government funded travel, except in those rare instances where first class travel would otherwise be approved, such as to accommodate medical necessities, or for handicapped travelers.

It is hoped that this information will make the planning and performance of your official travel easier and will help avoid the possibility of fraud charges or having to reimburse the government for improper use of these points, credits, or miles. This change was effective May 1, 1988 and will be change 19 to the JFTR, volume 1.

Enlisted artist opens new doors to Eagle's Eye Art Gallery

by JO2 Deb Tuthill

"Monterey is a great place for artists," says Petty Officer 3rd Class Louis Medina. "I've been motivated to do a lot more art work since I've been living in the Monterey Bay area."

This is fortunate for Medina of FNOG because, beginning this month, he will become the first enlisted male who will display work in the Eagle's Eye Art Gallery. The gallery is staffed, maintained and operated by dependent wives. To display work, the artist agrees to work at the art gallery 2-3 times per month.

The world's an inspiration

Medina, who has been drawing and painting all his life, finds inspiration from a wide variety of subjects, not only in

Monterey, but throughout the world. He recently read an article on the famine conditions in Ethiopia and painted a composite of some of the photos accompanying the article.

Diverse artist

On another occasion, Medina was house-sitting while his friend's black Labrador was in residence. The artist became inspired to do several portraits entitled, "dog sitting." He also made this work into a t-shirt iron-on. Other phases of Medina's work include abstracts of ocean scenes and water color sketches.

Diverse is an accurate description of Medina's artwork, since his skill ranges from black and white sketches to his recently acquired skills using an airbrush. He

took the airbrush class at Fort Ord and works closely with military and local graphics and art associations. "These classes help me stay motivated and disciplined. It's easy to let yourself get stale or lose interest. It's important to develop new ideas and new ways of actually seeing, not just looking — we all do that — but really seeing with a trained or fresh perspective."

Medina, who will be the gallery's featured artist in October, is grateful to the Art Gallery for providing him with the opportunity to show his work. "I hope this will help inspire more military people to come into the gallery for a visit and for artists to bring and exhibit their work. A lot of people paint and draw, and this is an excellent way to display their work."

Volunteers needed for Dressage show

The Family Resource Center of Monterey County is seeking volunteers to work at the 42nd Annual Pebble Beach Dressage Show (Horse Equestrian Show) on Friday, Saturday and Sunday, Aug. 12 to 14 at the Pebble Beach Equestrian Field.

Volunteers are needed to work in three or four hour shifts from 7:30 a.m. to 6:00 p.m., directing traffic and preparing and selling food and beverages. Parking passes and refreshments will be provided to the volunteers, who also will be able to watch the show.

The dressage show is a benefit for "The Friends of the Children" Auxiliary, a child abuse and neglect prevention

agency. Persons interested in volunteering can contact Petty Officer 1st Class Ray Fredette at ext. 2023.

Diskettes in stock at Ready Supply Store

Floppy disks are one of the new items being offered by the Ready Supply Store. The following is a list of stock numbers for these items.

Flexible diskettes, 5 1/4", box of 10, SS/DD 7045-01-081-0311 and DS/DD 7045-01-174-8384.

Also available are legal- and letter-size Pendaflex folders and frames.

Standard letter size folders are on order and should be available soon.

Nine students to receive military decorations

NPS Superintendent Rear Adm. Robert C. Austin will present military awards to nine students in a ceremony today at 2:30 p.m. in the Quarterdeck Lounge.

Recipients and their awards are:

Navy Commendation Medal
Lt. Christopher E. Agan, USN
Lt. Brent A. Ditzler, USN (2nd)
Lt. Daniel L. Downs, USN
Lt. John R. Loyer, USN
Lt. James B. Nabar, USN
Lt. Gary H. Rakes, USN
Lt. j.g. Dale R. Spaulding, USN

Navy Achievement Medal
Lt. Teresa M. Gobel, USN
Lt. Robert F. Blythe, USN

Civiscoop

by the Civilian Personnel Office

Congratulations to the following employees who received performance awards under the 1987-88 Basic Performance Appraisal System.

Quality Step Increase

Penelope Jones, Ellen Saunders, Peter Guest, Margaret Serna, Morris Baker, Rumi Escobido, Sam Hornbeck, Patricia Adler, Connie Cannon, Eva Long, Harry Conner, Patrick Hickey, June Favorite, Tessa Geary, Allen Caghey, Angela Balesteri, Mary Lathrop, Robin Barker, Patricia Paulson, Edith Rudy, Nancy Sharrock, Donald Snyder, Cherrie Walker, Karen Williams, Elaine Christain and Barbara King.

Sustained Superior Performance Award

Glenda Coleman, Kate Bell, Mitzy Andrews, Deborah Baity, Elizabeth Clark, Warren Hallum, Debra Kreider, Beverly Letinhand, Ben Manzano, Marion Myers, Mary Jo Spears, Belinda Woodley, Linda Allen, Evelyn Basham, Bonita Bemaugh, Paul Buzynski, Lang Chou, Carolyn Cor-

puz, Carlisle Ishmel, Michelle Jay, Mary Kunstal, Lawrence Gaber, Sandra Newlin, Ellen Livingston, John Sanders, Stacy Snow, Kathleen Weider, Helen Davis, Anita Hughes, Kathryn Kocher, Susan Olson, Deborah Ward, Jeanne Conklin, Renske Hutchings and David Lamm.

Vacancy announcement: Applications for the following vacancies are now being accepted in the Civilian Personnel Office under the Merit Staffing Program. For further information consult the vacancy announcement in your department or call ext. 2001.

Secretary, GS-5, Marine Corps; auditor, GS-11, mgmt. and analysis review; supervisory secretary, GS-5, ECE; safety and occupational health mgr., GS-11/12, safety office; computer operator, GS-5/6/7, computer center; mail clerk, GS-3/4, correspondence and records; firefighter, GS-5, fire dept.; engineering tech, GS-5 thru 9, physics; physical scientist, GS-9/11/12; meteorologist, GS-9/11/12; professional engineer, GS-5/7/9/11; secretary, GS-5/6/7, and clerk typist, GS-4, various depts.

Hooray for Calculus!

Words: Bruce Reznick, Bob McEliece, Hal Fredricksen

Music: Johnny Mercer
(Hooray for Hollywood)

Hooray for calculus
Old Newton's rootin' tootin' calculus
The class where letting delta x near zero
can make a hero
of students. Teachers will say,
Just take that limit
Be bright not dim, it's
likely to be finite and you're on your way.

Hooray for calculus
The single variable calculus

It's mathematics where each lady and gent
can find a tangent,
the straight line part of a curve.
Approximation
and integration
are easy for the student with a little verve.

So here's to calculus
Three cheers for ordinary calculus
And while we know at first our students
hate it
We still A rate it
At least it's worth a B+
Though it's not child's play
With work they come to say
Hooray for calculus.

The Quarterdeck is published weekly in accordance with NPPR-35. Views and opinions expressed are not necessarily those of the Department of the Navy. Deadline for all submissions, including classified ads and items for the campus calendar, is noon each Friday.

Superintendent: Rear Admiral Robert C. Austin
Public Affairs Officer: Commander Allen R. Sherwood
Deputy Public Affairs Officer: John F. Sanders
Editor: JO1 Frank Summers
Staff: JO1 Ray Fredette Jr., JOSN Davis Bowden
Printers: Educational Media Department Print Plant



Campus Calendar

-Friday August 5-
1000, FNOC AUDITORIUM
TED TSUI, RON MILLER,
ANN SCHRADER
"AUTOMATED TROPICAL CYCLONE
FORECASTING SYSTEM"

1110, SPANAGEL HALL RM 117
DR. MARTIN WALT,
LOCKHEED MISSILES
"THE STARFISH EXPERIMENT"

1200, LA NOVIA ROOM
NPS TOASTMASTERS
(POC: LTJG HENDRICKS, X4569)

1430, QUARTERDECK LOUNGE
MILITARY AWARDS CEREMONY

-Saturday August 6-
1200, NPS POOL
ENLISTED PICNIC FOR
NPS AND ITS TENANT COMMANDS
FAMILIES INVITED
FOOD, DRINKS AND
ENTERTAINMENT
PROVIDED
(POC: BM1 POLUMBO, X2275)

(NOTE: THE NPS SWIMMING POOL
WILL BE CLOSED FOR GENERAL USE
ALL DAY. IT WILL REOPEN AUG. 7)

-Thursday August 11-
1500, SPANAGEL HALL RM 138
PROF. K. E. WOHLER, NPS
"THE ORIGIN AND EVOLUTION OF
SPACE, TIME AND MATTER"

-Friday August 12-
1110, SPANAGEL 321 & 332
MSEE THESIS PRESENTATIONS

-August 17 to 19-
KING HALL
5TH INTERNATIONAL CONFERENCE
ON CRYOCOOLERS
(POC: PROF. HOFER, X3384)

-Saturday August 20-
1000, STILWELL REC CENTER
FORT ORD
ALL-SERVICES RETIREE
OPEN HOUSE

-August 25 to 27-
SPANAGEL HALL RM 101A
INTERNATIONAL FEDERATION ON
INFORMATION PROCESSING
(POC: PROF. HSIAO, X2253)

Sports beat

by JOI Frank Summers

With a toss of a coin one team can start a game of socko as a winner because they gain the advantage of being the home team. In a close game the home field advantage could mean the difference between winning and losing, because it's the home team that has the last at bat in the game.

Last Monday, in NPS Co-Ed Socko League action, the NNOA Eagles went into the bottom of the seventh inning with a 9-1 lead. It seemed that for the home team Party Animals, the game was out of reach, however as it's been said before, when it gets tough, the tough get going and so the Party Animals came up to bat.

Rally

The Party Animals began the bottom of the seventh inning by making an out. However, the next eight batters knocked holes into the Eagles defense and went on a seven-run rampage. Bruce Kavanaugh led off the hitting attack with a single and Tara Amante contributed with two singles in the inning.

With the score 9-8, Lee Frank hit a single, but the runner going to second base was tagged out. With two outs, Amante hit her second infield single. The stage was set. With the winning run on first base, Larry Montelongo came to the plate and belted another single that scored Frank, tying the game at 9-9. The next batter flew out, ending the game in a tie.

In other Co-Ed games, the We-Be's remain undefeated as they knocked off the

Misfits 13-3, and Bit and Pieces nipped the NEPRF Orioles 5-4.

In National League action, the Seaslug continued their winning ways as they knocked off the Maniacs 8-5. The Maniacs dropped their second game of the evening as they were pounded by the Yankees 12-1. The PP's O.T.H.G. blasted the No-Gaps 14-5 and the Acrocats shut out the Staff Stiffs 12-0.

Seaslug remain undefeated

The Seaslug remain on top of the National League with a 8-0 record. The Yankees are second at 8-1 and the PP's O.T.H.G. are in third with a 7-1 record.

For the Fun League division one, August 30 could become a critical date. That is the day the Fubars and Left Over Chops will meet each other, and both clubs are now undefeated. Recently the Fubars knocked off Arcs and Sparks 12-7, while the Left Over Chops defeated the Bar and Grill Gang 9-8. Both teams have 5-0 records.

In other Fun League division one games, Pubs bombed their Neighbors 20-0, the Terminators eliminated Byte and Gouge 6-3, and Bad News Bytes pounded J.P. Bad 13-3.

The Coast Guard Casreps remain the only undefeated team in the Fun League division two. Last week the Coast Guard Casreps sank the 360's 9-5. In other games, the Beta Masters defeated the F.A.R.T.S. 7-2, the Baud Boys erased the Pencilnecks 12-3, and the Seacubers nipped the Geeks 7-6.

Rec news

The Rec Office has tickets for rides at the Monterey County Fair, which will be held August 20-28 at the Monterey County Fairgrounds. Tickets are \$5.25 for sheets of seven - a 50 percent savings.

Spend a day at Great America this summer and experience the new "Roaring Rapids" water ride. Tickets are available at the Rec Office at \$11.25 for adults and \$7.75 for children ages 3-6.

Concerts offered at Great America :

August 6 - Kool and the Gang

August 12 - Belinda Carlisle

August 26 - Richard Marx.

Command picnic tomorrow

The annual command picnic will be held tomorrow at the NPS swimming pool. The picnic will begin at noon.

There will be free food, drinks and games for the entire family. There will also be a dunk tank. So come on out and enjoy a day of fun in the sun. The picnic is open to all Navy enlisted personnel and their invited guests.

Classified ads

For Sale: '73 Dodge Dart. Super clean. Only 40,000 actual miles. All records available. V8/318 cu. in. engine, automatic, a/c. Best offer over \$1,500. Call John, x2023.

For Sale: '85 Dodge Omni automatic, front wheel drive, p.b./p.s. \$3250 or best offer. Call Mike at ext. 2386 or at 883-2924.

For Sale: La Mesa fencing, 150 ft., posts, two gates. Call 646-8973.

For Sale: Five foot couch and two matching chairs, well-made. \$200. Two swivel recliners, \$50 each. One Vitamaster exercise cycle, \$45. Call 883-2532.

For Sale: 1983 Mercedes-Benz 380SL roadster, black with black leather, 47,000 miles, chrome wheels/trim. Call Don at 373-0511.

For Sale: 1985 Cavalier, 4-door, low mileage, excellent condition, asking \$4800. Call 372-9068.

For Sale/Rent: Great ski condo in Park City, Utah, or use any of 720 other locations for vacations any time of the year. Sale \$6800, rent \$550. Call 373-0522.

At the Movies

All movies will be shown at 7 p.m. except where noted and are subject to change. For more information about the movie schedule call 242-5566.

Barker Theater (at Fort Ord main exchange)

Friday, August 5 - The Presidio (R)

Saturday, August 6 - Pinocchio and the Emperor (1:30 p.m. G)

Saturday, August 6 - Bull Durham (R)

Sunday, August 7 - Bull Durham (R)

Presidio of Monterey Theater

Friday, August 5 - Vice Versa (PG)

Saturday, August 6 - The Presidio (R)

Sunday, August 7 - The Presidio (R)

Hanson Theater (at Fort Ord on Sixth Avenue near Bay View Chapel)

Friday, August 5 - The Great Outdoors (PG)

Saturday, August 6 - Big Business (PG)

Sunday, August 7 - Big Business (PG)

